

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Bob Villhard, on 3/11/09.

3. The claims have been amended as follows:

24. In a computer system having a first set of resources and a second set of resources including an amount of each resource, wherein the amount being specified in terms of units specific to each resource in the set of resources and a resource planner for granting reservations of amounts of currently available resource to activities, a computer implemented method comprising:

submitting by an activity a request for a reservation of the second set of resource in specified amounts to the resource planner;

determining at the resource planner that the request cannot be granted;

returning from the resource planner to the activity a list, the list including an amount of each currently available resource that satisfied the

resource reservation request and an amount of each currently available resource that did not satisfy the resource reservation request, the amounts being specified in terms of units specific to each resource in the set of resources;

determining at the activity whether the amounts of each currently available resource ~~that did not satisfy the resource reservation request~~ and will allow the activity to execute predictably are acceptable;

executing the activity when the resource reservation request is satisfy, otherwise, when the amount of each currently available resource do not satisfy the resource reservation request, reformulating the request for a reservation of the set of resources to a new specify requested amounts using the amounts of each currently available resource in the list ~~using at the activity, the amounts of each currently available resource that did not satisfy the resource reservation request to reformulate the request for a reservation of the set of resource to specify new request amounts;~~

resubmitting the reformulated request to the resource planner;

executing the activity using the new amounts; and

in view of changing resource usage or requirement, renegotiating between the resource planner and the activity to change the resource reservation to reflect the changing resource usage or requirement, wherein the method is implemented with hardware.

25. In a computer system having a set of resource including an amount of each resource, wherein the amount being specified in terms of units specific to each resource in the set of resources and a resource planner for granting reservations of amounts of currently available resource to activities, a computer implemented method comprising:

negotiating between the resource planner and activities to reserve shares of the resource with the resource planner on behalf of the activities, wherein the reservation of resource is negotiable;

submitting by an activity a request for a reservation of the set of resource in specified amounts to the resource planner;

determining at the resource planner that the request cannot be granted;

in view of changing resource usage or requirements, renegotiating between the resource planner and the activities to change reservations of resource on behalf of the activities to reflect the changing resource usage or requirement, wherein the renegotiating includes returning from the resource planner to the activity a list, the list including an amount of each currently available resource that satisfied the negotiable resource reservation request and an amount of each currently available resource that did not satisfy the negotiable resource reservation request, wherein the renegotiating is based on the amount of each currently available

resource, the amounts being specified in terms of units specific to each resource in the set of resources;

wherein renegotiating further includes determining at the activity whether the amounts of each currently available resource satisfy the resource reservation request and will allow the activity to execute predictably;

executing the activity when the resource reservation request is satisfy, otherwise when the amount of each currently available resource do not satisfy the resource reservation request, reformulating the request for a reservation of the set of resources to a new specify requested amounts using the amounts of each currently available resource in the list;

resubmitting the reformulated request to the resource planner;

executing the activity using the new amounts, wherein the method is implemented with hardware.

26. The method of claim 25 wherein the changing resource usage or requirements are the product of a new activity being performed.

27. The method of claim 25 wherein the changing resource usage or requirements are the product of an activity changing its resource requirements.

28. The method of claim 25 wherein the changing resource usage or

requirements are the product of an activity no longer being performed.

29. The method of claim 25 wherein the changing resource usage or requirements are the product of a persistent overload of use of a resource.

30. The method of claim 25 wherein the changing resource usage requirements are the product of a change in resource allocation policy.

31. In a computer system having a first set of resource and a second set of resources including an amount of each resource, wherein the amount being specified in terms of units specific to each resource in the set of resources and a resource planner for granting reservations of amounts of resources to activities, a computer-implemented method comprising:

submitting a request for a reservation for the second set of resource in specified amounts from an activity to the resource planner;

determining at the resource planner that the request cannot be granted;

when the request cannot be granted, returning from the resource planner to the activity a list, the list including an amount of each currently available resource that satisfied the resource reservation request, and an amount of each currently available resource that did not satisfy the

resource reservation request, the amount being specified in terms of units specific to each resource in the set of resource;

determining at the activity whether the amounts of each currently available resource satisfy the resource reservation request and will allow the activity to execute predictably;

executing the activity when the resource reservation request is satisfied, otherwise, reformulating the resource reservation request for a reservation of the set of resource to a new specify requested amounts using the amounts of each currently available resource in the list;

resubmitting the reformulated request to the resource planner;

executing the activity using the new amounts; and

in view of changing resource usage or requirement, renegotiating between the resource planner and the activity to change the resource reservation to reflect the changing resource usage or requirement, wherein the method is implemented with hardware.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CAMQUY TRUONG whose telephone number is (571)272-3773. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng Ai An can be reached on (571)272-3756. The fax

Art Unit: 2195

phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

Camquy Truong
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